ABSTRACT

Aflowtube (3) composed of a bent tube having a shape symmetrical with respect to a first axis is supported at its both ends by support portions—(8, 8)—having an outlet and inlet respectively. A drive device (4)—for alternately driving the flow tube (3)—rotationally about a second axis connecting the positions where the flow tube (3)—is supported is disposed on the vertical axis of a Coriolis flowmeter—(1).

A pair of second drive devices (5, 5) for alternately driving the flow tube (3)-rotationally are disposed at positions laterally symmetrical with respect to the drive device (4). The paired second drive devices (5, 5) are driven in phase; the drive device (4)-is driven with the opposite phase to those of the second drive devices (5, 5). A pair of vibration detecting sensors (6, 6) are disposed between the drive device (4)-and one of the second drive device (5)-and between the drive device (4)-and the other (5)-respectively. The sensors (6, 6)-detect vibrations with phases the difference between which is in proportion to the Coriolis force acting on the flow tube (3)-disposed laterally symmertrically with respect to the drive device—(4).